

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/667,271A
Source: FW16
Date Processed by STIC: 6/16/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFW16

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

3 <110> APPLICANT: Sirna Therapeutics
 4 McSwiggen, James
 5 Macejak, Dennis
 6 Beigelman, Leonid
 7 Morrissey, David
 9 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Hepatitis C Virus
 (HCV)
 10 Gene Expression Using Short Interfering Nucleic Acid (siNA)
 12 <130> FILE REFERENCE: 400/129 (MBHB02-763B)
 14 <140> CURRENT APPLICATION NUMBER: 10/667,271A
 15 <141> CURRENT FILING DATE: 2003-09-16
 17 <150> PRIOR APPLICATION NUMBER: US 10/444,853
 18 <151> PRIOR FILING DATE: 2003-05-23 *close up spaces*
 20 <150> PRIOR APPLICATION NUMBER: PCT/US03/05043
 21 <151> PRIOR FILING DATE: 2003-02-20
 23 <150> PRIOR APPLICATION NUMBER: PCT/US02/09187
 24 <151> PRIOR FILING DATE: 2002-03-26
 26 <150> PRIOR APPLICATION NUMBER: USSN 60/401,104
 27 <151> PRIOR FILING DATE: 2002-08-05
 29 <150> PRIOR APPLICATION NUMBER: USSN 60/358,580
 30 <151> PRIOR FILING DATE: 2002-02-20
 32 <150> PRIOR APPLICATION NUMBER: USSN 60/363,124
 33 <151> PRIOR FILING DATE: 2002-03-11
 35 <150> PRIOR APPLICATION NUMBER: USSN 60/386,782
 36 <151> PRIOR FILING DATE: 2002-06-06
 38 <150> PRIOR APPLICATION NUMBER: USSN 60/406,784
 39 <151> PRIOR FILING DATE: 2002-08-29
 41 <150> PRIOR APPLICATION NUMBER: USSN 60/408,378
 42 <151> PRIOR FILING DATE: 2002-09-05
 44 <150> PRIOR APPLICATION NUMBER: USSN 60/409,293
 45 <151> PRIOR FILING DATE: 2002-09-09
 47 <150> PRIOR APPLICATION NUMBER: USSN 60/440,129
 48 <151> PRIOR FILING DATE: 2003-01-15
 50 <160> NUMBER OF SEQ ID NOS: 1706
 52 <170> SOFTWARE: PatentIn version 3.2
 54 <210> SEQ ID NO: 1
 55 <211> LENGTH: 19
 56 <212> TYPE: RNA
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
 sense region
 62 <400> SEQUENCE: 1
 63 gccccgggag gucucguag

11/12/15
**Does Not Comply
 Corrected Diskette Needed**

19

66 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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67 <211> LENGTH: 19
68 <212> TYPE: RNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
74 <400> SEQUENCE: 2
75 ugugguacug ccugauagg 19
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 19
80 <212> TYPE: RNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
86 <400> SEQUENCE: 3
87 uugugguacu gccugauag 19
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 19
92 <212> TYPE: RNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
98 <400> SEQUENCE: 4
99 ccccgaggagg ucucguaga 19
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 19
104 <212> TYPE: RNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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110 <400> SEQUENCE: 5
111 gugguacugc cugauaggg 19
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 19
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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122 <400> SEQUENCE: 6
123 cugccugaua gggugcuug 19
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 19
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
134 <400> SEQUENCE: 7
135 ccuuguggua cugccugau 19

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138 <210> SEQ ID NO: 8
139 <211> LENGTH: 19

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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140 <212> TYPE: RNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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146 <400> SEQUENCE: 8
147 gcgaaaggcc uugugguac 19
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 19
152 <212> TYPE: RNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
158 <400> SEQUENCE: 9
159 uacugccuga uagggugcu 19
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 19
164 <212> TYPE: RNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
170 <400> SEQUENCE: 10
171 gguacugccu gauagggug 19
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 19
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
182 <400> SEQUENCE: 11
183 aaaggccuug ugguacugc 19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 19
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
194 <400> SEQUENCE: 12
195 aaggccuugu gguacugcc 19
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 19
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
206 <400> SEQUENCE: 13
207 cuugugguac ugccugaua 19
210 <210> SEQ ID NO: 14

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211 <211> LENGTH: 19
212 <212> TYPE: RNA

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

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213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
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218 <400> SEQUENCE: 14
219 aggccuugug guacugccu 19
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 19
224 <212> TYPE: RNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
230 <400> SEQUENCE: 15
231 guacugccug auagggugc 19
234 <210> SEQ ID NO: 16
235 <211> LENGTH: 19
236 <212> TYPE: RNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
242 <400> SEQUENCE: 16
243 acugccugau agggugcuu 19
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 19
248 <212> TYPE: RNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
254 <400> SEQUENCE: 17
255 cuugcgagug ccccgagg 19
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 19
260 <212> TYPE: RNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
266 <400> SEQUENCE: 18
267 cugauagggg gcuugcgag 19
270 <210> SEQ ID NO: 19
271 <211> LENGTH: 19
272 <212> TYPE: RNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
278 <400> SEQUENCE: 19
279 uugcgagugc cccgggagg 19
282 <210> SEQ ID NO: 20
283 <211> LENGTH: 19

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284 <212> TYPE: RNA

285 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
290 <400> SEQUENCE: 20
291 ccugauaggg ugcugcgga 19
294 <210> SEQ ID NO: 21
295 <211> LENGTH: 19
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
302 <400> SEQUENCE: 21
303 ggccuugugg uacugccug 19
306 <210> SEQ ID NO: 22
307 <211> LENGTH: 19
308 <212> TYPE: RNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
314 <400> SEQUENCE: 22
315 gcuugcgagu gcccggga 19
318 <210> SEQ ID NO: 23
319 <211> LENGTH: 19
320 <212> TYPE: RNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
326 <400> SEQUENCE: 23
327 ugccugauag ggugcuugc 19
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 19
332 <212> TYPE: RNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
338 <400> SEQUENCE: 24
339 gaaaggccuu gugguacug 19
342 <210> SEQ ID NO: 25
343 <211> LENGTH: 19
344 <212> TYPE: RNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
350 <400> SEQUENCE: 25
351 gccugauagg gugcuugcg 19
354 <210> SEQ ID NO: 26
355 <211> LENGTH: 19
356 <212> TYPE: RNA

357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/16/2006
PATENT APPLICATION: US/10/667,271A TIME: 11:46:31

Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1421; N Pos. 20,21
Seq#:1422; N Pos. 20,21
Seq#:1423; N Pos. 20,21
Seq#:1424; N Pos. 20,21
Seq#:1425; N Pos. 20,21
Seq#:1426; N Pos. 20,21
Seq#:1427; N Pos. 20,21
Seq#:1428; N Pos. 20,21
Seq#:1429; N Pos. 20,21
Seq#:1430; N Pos. 20,21
Seq#:1431; N Pos. 20,21
Seq#:1432; N Pos. 20,21
Seq#:1433; N Pos. 20,21
Seq#:1434; N Pos. 20,21
Seq#:1435; N Pos. 1,2
Seq#:1436; N Pos. 1,2
Seq#:1437; N Pos. 1,2
Seq#:1438; N Pos. 1,2
Seq#:1439; N Pos. 1,2
Seq#:1440; N Pos. 1,2
Seq#:1441; N Pos. 1,2
Seq#:1442; N Pos. 1,2
Seq#:1443; N Pos. 1,2
Seq#:1444; N Pos. 1,2
Seq#:1445; N Pos. 1,2
Seq#:1446; N Pos. 1,2
Seq#:1447; N Pos. 1,2
Seq#:1448; N Pos. 1,2
Seq#:1477; N Pos. 20,21
Seq#:1478; N Pos. 20,21
Seq#:1479; N Pos. 20,21
Seq#:1480; N Pos. 20,21
Seq#:1481; N Pos. 20,21
Seq#:1482; N Pos. 20,21
Seq#:1483; N Pos. 20,21
Seq#:1484; N Pos. 20,21
Seq#:1485; N Pos. 20,21
Seq#:1486; N Pos. 20,21
Seq#:1487; N Pos. 20,21
Seq#:1488; N Pos. 20,21
Seq#:1489; N Pos. 20,21
Seq#:1491; N Pos. 20,21
Seq#:1492; N Pos. 20,21
Seq#:1493; N Pos. 20,21

VERIFICATION SUMMARY

DATE: 06/16/2006

PATENT APPLICATION: US/10/667,271A

TIME: 11:46:31

Input Set : F:\02-763-B Sequence Listing.txt

Output Set: N:\CRF4\06162006\J667271A.raw

L:19020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1502 after pos.:0

L:19107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1503 after pos.:0

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<210> 1421
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA sense region

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 1421
ccccgggagg ucucguagan n

no Ts allowed in an RNA sequence, even if represented by "n"

delete - already shown

For a combined
21 DNA/RNA

sequence,
use

<2127 DNA
and explain
in <2207-2237
section

This error also
appears in
subsequent sequences